

nm/w

RESTRICTED
Security Information

*EIC/s
File Copy*

Economic Intelligence Report

DRAFT REPORT OF THE WORKING GROUP ON MINERALS REPORTING
OF THE
SUBCOMMITTEE ON REQUIREMENTS AND FACILITIES FOR COLLATION

EIC-S-12

April 1953

Economic Intelligence Committee

sent to EIC - 6

State & Interior Departments reviews completed

RESTRICTED

RESTRICTED

DRAFT REPORT OF WORKING GROUP ON MINERALS REPORTING

Introduction

In the course of assisting the State Department, Division of Foreign Reporting, in a revision of the economic reporting system, the Subcommittee on Requirements and Facilities for Collation of the Economic Intelligence Committee set up a working group to review in detail the requirements of the intelligence agencies for minerals reporting. This method of review was instituted as an experiment and designed to solve the problem of achieving consistency of reporting for individual commodities in a reporting system based on geographic units. The results of the survey are designed to be incorporated in the intelligence agencies' recommendations.

Because the Army and the Navy reported only passing interest in this subject, most of the review was carried on by representatives from CIA, Air Force and State. The Bureau of Mines also participated in some of the discussions, but chose not to be intimately connected with a report because Interior's views on foreign reporting differ in some respects from those of the intelligence agencies and would in any event be presented independently to the Division of Foreign Reporting. Representatives from non-intelligence areas of the State Department were also active participants.

Objectives and Methods

Basic to the working group's approach to the problem was the recognition that reporting need not necessarily be exhaustive to be effective. Furthermore, the Group tried to fit its proposals to the new framework for economic reporting now being adopted by the Department of State. This new system basically transfers all instructions to individual post instructions and seeks to avoid circular instruction for repetitive reporting. It also attempts to set priorities on various demands on post personnel. Consequently, for each subject on which the Working Group recommends reporting, the country coverage, frequency, priority and type of reporting has been noted. This memorandum, because it is addressed to reporting for all countries and for all minerals, may appear complex, but application of the proposals to a single country would be fairly simple.

The standard form for reporting for each country contains four sections (A) Requirements for Basic or Background Reports; (B) Requirements for Repetitive Statistical Data; (C) Requirements for Repetitive Analytic Reporting; and (D) Alert List - Topics of particular importance

RESTRICTED

RESTRICTED

2

Group's view of how these subjects should be treated with respect to minerals is described in the next few pages. Taking into account possible requirements for each of these types of reporting, the Group tried to simplify matters by proposing three levels of reporting, (a) full coverage which includes the largest number of subjects, most frequent reports, and highest priorities; (b) medium coverage which is less detailed; and (c) minimum coverage which is in the least detail. The meaning of these categories is spelled out specifically in tables 1 and 2 and in the remaining text of this report.

In selecting a specific degree of coverage for any one mineral in each country no arbitrary quantity, value nor percentage cut-off points were finally established, but this approach was used as a starting point. Instead the following criteria were applied to each of the minerals covered:

1. The importance of the commodity in world trade taken in conjunction with the country's contribution to world supplies of that material;
2. Its importance to the country concerned;
3. Its strategic importance, which includes the grade of material, to the free world.

A commodity does not necessarily meet all the above criteria in the same degree. For example, cobalt is not of prime importance to Cuba and Cuban output accounts for a relatively small portion of world supplies, but Cuban cobalt is strategically significant to the free world. Therefore full coverage on cobalt reporting was requested for Cuba. Belgian tin metal is another example of requested full coverage. Although Belgium does not produce tin ore and tin is not one of the leading revenue earners for the country, Belgium is one of the world's leading processors of tin ore and exporters of tin metal.

For each commodity requiring full or medium coverage the emphasis on mining and milling (m), processing (p), or trade (t) is noted so that reporting officers will not attempt to get detailed information, for example, on mining in a country where mining is insignificant but processing or trade is important. A separate category referred to as "watch" has been included to cover commodities which may not now be important and for which statistical data may not now be available but on which we have reason to expect important developments in the near future.

Each country for which minerals reporting is required is listed alphabetically in Appendix A. The reporting post is listed in parentheses after the name of each country. Requirements for full and

RESTRICTED

RESTRICTED

3

medium reporting are described in detail in later sections. It should be noted, however, that the selection of commodities for minimum reporting introduced new difficulties, because of the great difference in the urgency for reporting various minerals. As a consequence, the category "Minimum Coverage" is broken down into three groups, namely:

- a. Data to be submitted as promptly as possible.
- b. Data to be submitted, but work on these items should not delay reporting of group "a" items.
- bx. Data to be submitted only if available in published form.

The minerals listed for each country have been taken from the present Bureau of Mines "minerals production questionnaire".¹ Some items, such as chemicals, which do not clearly belong in the minerals reporting schedule have been dropped. Those minerals listed in the questionnaires are also omitted if they are not produced at all or if output is insignificant in specified countries. Appendix B lists by commodity only those minerals for which full or medium coverage is desired for one or more countries. Each listing of these selected commodities includes all countries for which reporting is requested in some degree. Those minerals for which no country is given more than minimum coverage have been omitted from Appendix B. Those countries reporting on these items account for only a small portion of the world supply in most cases. The criteria used in selecting the degree of coverage preclude any attempt to make a total world listing for each mineral.

Section A - Requirements for Basic or Background Reports

Section A of each of the economic reporting programs now being sent to the field calls for a single-time basic or background report. Although members of the Group believe that such reports will be desired by their agencies from time to time, they believe that there is no general requirement for single industry or single country reports which should automatically go out in the formal instructions now being drafted. A guide appropriate both for Section A (single-time reporting) and for Section C (periodic analytic reporting) on a particular industry is shown in Appendix C. As Appendix D to this report a comprehensive outline for a single-time report on an individual minerals producer is also presented in order to show which kinds of information may be of interest but we believe it would be more appropriate to incorporate the outline itself in the reporting manual rather than in individual

1. Iron and steel, fuelwood, and petroleum were not covered by the Group. In the case of iron and steel, the Group expects to present a separate report at a later date.

RESTRICTED

4

reporting instructions. This particular outline should not be used as a guide for a report without specific instructions as to which parts of the outline apply to the problem at hand.

Section B - Requirements for Repetitive Statistical Data

Requirements for statistical reporting to fit into Section B of the reporting instructions are outlined below in Table 1 and notes describing the categories more fully are shown in Appendix E. These notes probably should eventually appear in the reporting manual. The reporting manual should also contain brief details about individual commodities indicating, for example, whether metal content of ores and concentrates is reported in terms of gross weight or on a recoverable basis; information on technical terms used for particular commodities; and modifications that should be applied to the outlines for certain commodities. Proposed country and commodity coverage is shown in Appendices A and B.

Table 1. Guide for Statistical Reporting

	<u>Full Coverage</u>		<u>Medium Coverage</u>		<u>Minimum Coverage</u>	
	<u>Frequency</u>	<u>Priority</u>	<u>Frequency</u>	<u>Priority</u>	<u>Frequency</u>	<u>Priority</u>
1. Mine production	quarterly	3	annual	3	annual	3
2. Smelter production	quarterly	3	annual	3	annual	3
3. Refinery production	quarterly	3	annual	3	annual	3
4. Exports* by destination & type of product	quarterly	3	quarterly	3	annual	3
5. Imports* by source and type of product	quarterly	3	quarterly	3	annual	3
6. Actual consumption	annual	4	annual	4	annual	4
7. Stocks-smelter and refinery	annual	3	annual	3	annual	3
8. Prices	quarterly	3	quarterly	3	none	none

* Items 4 and 5 should be shown both in quantity and value.

RESTRICTED

RESTRICTED

5

Section C - Requirements for Repetitive Analytic Reporting and
Section D - Alert List - Topics of particular importance for
reporting as significant developments occur

Appendix C, already mentioned in connection with single-time industry reporting, contains the descriptive notes for guiding analytic reporting of the minerals industry. These notes should appear in the reporting manual. Below are the Group's recommendations for coverage, frequency and priority of analytical reports. In some instances the subjects clearly call for only occasional revisions, e.g. #3, 4, 9, etc. Other subjects do not require periodic reporting but should be reported upon whenever there are noteworthy developments.

Table 2. Guide for Analytical Reporting

	Full Coverage		Medium Coverage		Minimum Coverage	
	<u>Frequency</u>	<u>Priority</u>	<u>Frequency</u>	<u>Priority</u>	<u>Frequency</u>	<u>Priority</u>
1. Relative importance of the industry in the economy and in relation to other segments of the minerals industry	annual	4	annual	4	-	
2. Comments on production, consumption and foreign trade	quarterly	3	annual	3	annual	3
3. Salient features of the industry	annual	4	annual	4	-	
4. Ownership and financial structure	alert list	3	alert list	3	-	
5. Government policies, controls, and laws	alert list	4	alert list	4	-	
6. Taxes, duties and subsidies	alert list	3	alert list	3	-	
7. Participation in international commodity agreements	alert list	4	alert list	4	--	
8. General outlook	quarterly	3	annual	4	-	
9. Description of principal mining methods and metallurgical processes	annual	4	annual	4	--	
10. New activities in exploration and development and technology	alert list	3	alert list	3	alert list	3
11. Competitive position	annual	4	-	-	-	
12. Factors affecting production	alert list	3	alert list	3	-	
13. Special labor problems	alert list	3	alert list	3	-	

RESTRICTED

6

RESTRICTEDAPPENDIX AClassification of Countries for Foreign Reporting Purposes - Mine
Production, Processing and Consumption of Minerals and Metals

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ADEN (Aden)</u>			Salt		
<u>AFGHANISTAN (Kabul)</u>				Beryl Cement Chromite Lead Salt Solid fuels Talc Zinc	
<u>ALGERIA (Algiers)</u>	Antimony-m Lead-m Phosphates-m Zinc-m		Gypsum Solid fuels	Barite Cement Limestone Pyrites Salt Sand and gravel Silver Sulfur	Building stone Clay Copper Diatomite Feldspar Flagstone Kaolin (China clay) Lime Marble Mercury Stone
<u>ANGLO-EGYPTIAN SUDAN (Cairo)</u>				Gypsum Salt	Gold Magnesite

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

7

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ANGOLA (Lunda)</u>	Diamonds-m	Beryl-m Tungsten-m	Manganese	Copper Gold Mica Salt	Asphalt Cement Gypsum Lead
<u>ARGENTINA (Buenos Aires)</u>	Beryl-m Tungsten-m	Lead-m,p Mica-m Solid fuels-t Zinc-m,p	Copper-t	Antimony Barite Bismuth Cement Fluor- spar Gypsum Salt Silver Sulfur Tin	Clay Columbite- Tantalite Corundum Dolomite Feldspar Gold Graphite Lime Limestone Marble Silica Talc
<u>AUSTRALIA (Melbourne)</u>	Lead-m,p Solid fuels- m,p Titanium (rutile & ilmenite)-m Tungsten-m Zinc-m,p Zircon-m	Cadmium-m,p Columbite - tantalite-m Copper-m,p	Aluminum-p Beryl-m Pyrites-m	Asbestos Bauxite Cement Gold Gypsum Magnesite Salt Silver Tin	Alunite Antimony Arsenic Barite Bismuth Cobalt Diatomite Dolomite Feldspar
					Bentonite (Plastic clay) Damourite Diamonds Flint Fuller's earth Gems Glauconite Mineral pigments

m - Mine production (including milling)

p - Processing - (including smelting, refining, coking)

RESTRICTED

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>AUSTRALIA (Melbourne) - continued</u>				Fluorspar Graphite Kaolin (China clay) Limestone Lithium minerals Manganese Mica Molybdenum Platinum (Group metals) Phosphates Rare earths Selenium Silica and silica stone Sillimanite Talc Vermiculite	Sand, glass Serpentine
<u>AUSTRIA (Vienna)</u>					
Aluminum,p	Solid fuels-m,p	Lead-m,p Pyrites,m,t Zinc-m,p	Cement Copper Graphite Magnesite Pyrophyllite Salt Talc	Antimony Arsenic Barite Bauxite Feldspar Gold Gypsum Kaolin (China clay) Mica Molybdenum	Asbestos Asphalt Calcite Clay Mercury Mineral pigments Phosphates Silver Sulfur Tungsten Wulfenite (lead molyb- date)

m - Mine production (including milling)

p - Processing (including smelting, refining, etc.)

Approved For Release 2002/05/31 : CIA-RDP92B01090R000600010011-9

RESTRICTED

RESTRICTED

9

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BAHAMA ISLANDS (Nassau)</u>				Lime Limestone Rock, cracked Salt	
<u>BARBADOS AND LEEWARD ISLANDS (Barbados)</u>		Bauxite-m			Barite Limestone Salt
<u>BECHUANALAND (Pretoria or Johannesburg)</u>			Kyanite	Gold Silver	
<u>BELGIAN CONGO, including RWANDI-URUNDI (Elisabethville)</u>					
Cobalt-m,p Columbite and Tantalite-m Copper-m,p Diamonds-m Manganese-m Tin-m,p Tungsten-m Zinc-m	Cadmium-m		Gold Silver	Cement Germanium Gypsum Lead Platinum group metals Salt Solid fuels	Bismuth Cerium Corundum Graphite Lime Limestone

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

10

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BELGIUM (Brussels)</u>					
Antimony-p		Columbite-t	Cement	Arsenic	Aluminum
Cadmium-p		Germanium-p		Bentonite	Barite
Cobalt-p				(plastic clay)	Clay, potters
Copper-p				Dolomite	Gravel
Diamonds-p				Kaolin (China clay)	Grinding stone
Lead-p				Pyrites	Lime
Solid fuels-m, p				Selenium	Limestone and flux
Tin-p					Manganese
Zinc--p					Marble
					Mineral pigment (Ochre)
					Paving stone
					Phosphates
					Porphyry
					Sand
					Sandstone
					Silica
					Slate
					Stone

<u>BERMUDA (Hamilton)</u>					
					Lime
					Limestone

m - Mine production (including milling)					
p - Processing (including smelting, refining, coking)					
t - Trade					

RESTRICTED

RESTRICTED

11

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BOLIVA (La Paz)</u>					
Antimony-m Asbestos-m Tin-m Tungsten-m	Lead-m Sulfur-m Zinc-m		Bismuth Copper Silver	Cement Cobalt Gold Limestone Mica Selenium Stone	Dolomite Fluorspar Lime Manganese Mercury Salt

<u>BRAZIL (Rio de Janeiro)</u>					
Beryl-m Columbite- tantalite-m Manganese-m Mica-m Quartz-m Rare earths-m Tungsten-m Zircon-m	Aluminum-p Diamonds-m Nickel-m Solid fuels-m,p Tin-m,p	Titanium (Rutile & ilmenite) -m	Arsenic Barite Bauxite Cement Gold Gypsum Pyrites Salt	Clay Corundum Feldspar Fluorspar Gems (other than diamonds) Graphite Lime Limestone Magnesite Marble Phosphates Sand Silver Stone	Agate Asbestos Bismuth Calcite Chalk Chromite Diatomite Dolomite Granite Lead Lithium minerals (amblygonite lepidolite and spodumene) Mineral pigments Slate Talc and soapstone

m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					

RESTRICTED

12

RESTRICTEDAPPENDIX A (continued)

Full Coverage		Medium Coverage	Watch List	Minimum Coverage		
				a	b	bx
BRITISH BORNEO (Singapore)						
<u>Brunei</u>					Road stone Solid fuels	
<u>North Borneo</u>						
					Manganese Solid fuels	Antimony Copper
<u>Sarawak</u>						
					Antimony Bauxite Gold Lime Phosphate (Guano) Road stone Silver Solid fuels	Lead
BRITISH GUIANA (Port-of-Spain)						
Bauxite-m	Columbite-tan- talite-m Diamonds-m				Gold	Granite
BRITISH HONDURAS (Belize)						
					Limestone	

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

RESTRICTED

RESTRICTED

13

APPENDIX A (continued)

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>	
			a	b	bx
<u>BRITISH SOMALILAND (Aden)</u>				Limestone	Beryl Salt
<u>BURMA (Rangoon)</u>					
Tungsten-m	Antimony-m Lead-m,p Solid fuels-m Tin-m Zinc-m		Cobalt Copper Molybdenum Nickel Titanium	Bismuth Building stone and road stone Cement Gold Manganese Salt Silver	Clay for pottery Gems Quartz Talc
<u>CANADA (Ottawa)</u>					
Aluminum-p Asbestos-m Bismuth-m,p Cadmium-m,p Cobalt-m,p Copper-m,p Lead-m,p Magnesium-p Nickel-m,p Platinum Group metals-m,p Solid fuels, -m,p Titanium (ilmonite) -m,p Zinc-m,p	Antimony-m Beryl-m Columbite- Tantalite-m Fluorspar-m Pyrites-m,p Tungsten-m	Germanium-m	Barite Cement Feldspar Gold Gypsum Mica Selenium Silver Sulfur Tellurium	Arsenic Chromite Graphite Molybdenum Phosphates Salt Talc and soapstone	Diatomite Indium Kaolin (China clay) Magnesite Manganese Mercury Tin

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

14

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>CEYLON (Colombo)</u>					
Graphite-m				Salt	Cement Chalk Clay Gems Granite Gypsum Limestone Mica Rare earths Sand Titanium (ilmenite)

<u>CHILE (Santiago)</u>					
Copper-m,p	Manganese-m		Cement	Asbestos	Borates
Molybdenum-m,p	Sulfur-m		Gold	Barite	Diatomite
Nitrates-m			Gypsum	Clay	Dolomite
			Iodine	Cobalt	Mineral pig-
			Mercury	Feldspar	ments
			Silver	Lead	Quartz
			Solid fuels	Limestone	Tungsten
				Marble	
				Phosphates	
				Salt	
				Talc	
				Zinc	

<u>CHRISTMAS ISLAND (London)</u>					
			Phosphates		

m - Mine production (including milling) p - Processing (including smelting, refining and coking) t - Trade					

RESTRICTED

RESTRICTED

15

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>COLOMBIA (Bogota)</u>					
Platinum group metals-m	Solid fuels-m Sulfur-m		Asbestos Asphalt Cement Gems Gold	Barite Gypsum Limestone Salt Silver	Zinc

<u>COSTA RICA (San Jose)</u>					
				Diatomite Gold Salt	Lime Limestone Silver Sulfur

<u>Cuba (Habana)</u>					
Cobalt-m,p Nickel-m,p	Chromite-m Copper-m Manganese-m		Cement Gypsum	Asphalt Gold Limestone Marble Salt Silver Stone	Lead (from gold- silver content)

<u>CYPRUS (Nicosia)</u>					
Copper-m Pyrites-m	Chromite-m		Asbestos	Gypsum Magnesite Salt	Gold Mineral pigments Silver

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

RESTRICTED

16

RESTRICTEDAPPENDIX A (continued)

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
				<u>a</u>	<u>b</u>	<u>bx</u>
<u>DENMARK (Copenhagen)</u>						
• Cryolite-p*	Solid fuels-t			Cement	Kaolin (China clay)	Chalk Clay (other than Kaolin) Flint Lime Marl Salt Stone
* - Cryolite production in Greenland is reported from Denmark						

<u>DOMINICAN REPUBLIC (Ciudad Trujillo)</u>						
		Bauxite-m			Cement Gold Gypsum Limestone Marble	Lime Salt

<u>ECUADOR (Quito)</u>						
		Solid fuels -m Sulfur-m	Gold Silver		Cement Gypsum Kaolin (China clay) Salt	Copper Lead Magnesite

m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade						

RESTRICTED

RESTRICTED

17

APPENDIX A (Continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>EGYPT (Cairo)</u>	Manganese-m Phosphates-m Salt-m	Titanium (ilmenite)- m	Cement Gypsum	Asbestos	Barite
				Chromite	Basalt
				Clay	Black sands
				Gold	Calcite
				Granite	Diatomite
				Limestone	Feldspar
				Mineral pig- ments	Gravel
				Sand	Lead
				Sandstone	Pumice stone
				Talc	Rare earths
				Tungsten	Sulfur
					Tin
					Zinc
<u>EL SALVADOR (San Salvador)</u>			Gold Silver	Lead	Cement
				Lime	Clay
				Limestone	Pozzuolana
				Salt	Stone,
					ornamental (specify)
<u>ERITREA (Asmara)</u>				Cement	Manganese
				Feldspar	Mica
				Gold	Potash salts
				Kaolin(China clay)	Sulfur
				Salt	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

18

RESTRICTEDAPPENDIX A (continued)

Full Coverage		Medium Coverage	Watch List	Minimum Coverage		
				a	b bx	
<u>ETHIOPIA (Addis Ababa)</u>					Cement Gold Platinum group metals Salt Solid fuels	Gypsum Mica Potash
<u>FIJI ISLANDS (Noumea)</u>					Gold Silver	Manganese
<u>FINLAND (Helsinki)</u>						
Cobalt-m Copper-m,p	Nickel-m,t Pyrites-m,p Solid fuels-m,p		Asbestos Cement Feldspar	Beryl Gold Gypsum Lead Lime Limestone Molybdenum Selenium Silver Talc Tungsten Zinc	Dolomite Graphite Kaolin (China clay) Marble Marl Sulfur	
<u>FRANCE (Paris)</u>						
Aluminum-p Bauxite-m,p Solid fuels- m,p	Copper -t Lead-m,p Magnesium-p Nickel-p Pyrites-m	Titanium-p	Arsenic Barite Bismuth Cadmium Cement	Antimony Asbestos Diatomite Gold Kaolin (China clay)	Graphite	
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade						

RESTRICTED

19

APPENDIX A (continued)

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
				a	b	bx
<u>FRANCE (Paris) - continued</u>		Rare earths-p Tin-t Zinc-m,p		Feldspar Fluorspar Gypsum Phosphates Salt Silver Sulfur Talc Tungsten	Selenium	
<u>FRENCH CAMEROONS (Elisabethville)</u>				Titanium (rutile)	Gold Tin	Salt
<u>FRENCH EQUATORIAL AFRICA (Elisabethville)</u>		Diamonds-m	Manganese-m		Cadmium (content of zinc concentrate) Gold Lead Titanium (rutile) Zinc	Columbite- Tantalite Corundum Graphite Rare earths Salt Silver
<u>FRENCH GULANA AND ININI (Martinique)</u>			Bauxite-m Diamonds-m Tantalite-m		Gold	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

20

RESTRICTEDAPPENDIX A (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>FRENCH MOROCCO</u>	<u>(Casablanca)</u>				
Beryl-m Cobalt-m Lead-m,p Manganese-m Phosphates-m Zinc-m	Antimony-m Asbestos-m Salt-m	Zinc-p	Cement Silver Solid fuels	Copper Fluorspar Graphite Gypsum Mica Molybdenum Smectite (green clay)	Gold Mineral pigment(ochre) Nickel Talc Tin Tungsten
<hr/>					
<u>FRENCH SOMALILAND</u>	<u>(Addis Ababa)</u>			Salt	
<hr/>					
<u>FRENCH WEST AFRICA, including</u>	<u>FRENCH TOGOLAND (Dakar)</u>				
	Bauxite-m Diamonds-m	Manganese-m	Titanium (ilmenite & rutile)	Gold Limestone Salt	Chromite Lead Phosphates Silver Tin Tungsten
<hr/>					
<u>GERMANY, WESTERN</u>	<u>(Duesseldorf, assigned from Bonn)</u>				
Aluminum-p Copper-p Lead-m,p Solid fuels-m,p Zinc-m,p	Cobalt-p Columbite-p Fluorspar-m Manganese-t Nickel-p Potash-m Pyrites-m Salt-m		Barite Bismuth Cement Feldspar Graphite Gypsum Magnesite Silver Talc and soapstone	Arsenic Bauxite Cadmium Chromite Diatomite Gold Kaolin (China clay) Phosphates Selenium Tin-p	Antimony Mercury Molybdenum Silicon Tungsten Vanadium

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

21

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b
GOLD COAST, ASHANTI AND BRITISH TOGOLAND (Accra)				bx
Bauxite-m		Aluminum-p	Gold	Salt
Diamonds-m			Platinum	
Manganese-m			group	
			metals	
			Silver	
<u>GREECE (Athens)</u>				
	Bauxite-m	Nickel-m	Magnesite	Arsenic
	Chromite-m	Pyrites-m		Barite
	Lead-m,p			Cement
	Zinc-m			Gypsum
				Kaolin
				(China
				clay)
				Emery
				Grinding
				stones
				Limestone
				Marble
				Silver
				Terre de
				santorin
<u>GREENLAND (Godthaab)</u>				
Cryolite *		Lead-m	Solid fuels	Graphite
		Zinc-m		
* - Cryolite data reported from Copenhagen, Denmark				
<u>GUATEMALA (Guatemala)</u>				
		Lead	Cement	Copper
		Zinc	Chromite	Gold
			Mica	Silver
			Salt	Solid fuels
				Sulfur

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

22

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>HAITI (Port-au-Prince)</u>		Bauxite-m		Lime Limestone Salt	Gold
<u>HONDURAS (Tegucigalpa)</u>			Gold Lead Silver	Salt	Antimony
<u>HONG KONG</u>			Solid fuels-t Tin-p,t	Cement Kaolin (China clay)	Fluorspar Garnet Lead Mica Molybdenum Pyrites Quartz Tungsten
<u>ICELAND (Reykjavik)</u>				Solid fuels	Cement Iceland spar Sulfur
<u>INDIA (New Delhi)</u>					
Beryl-m Kyanite-m Manganese-m Mica-m,p Rare earths-m,p Solid fuels-m,p Titanium (ilmenite and rutile)-m	Aluminum-p Salt-m	Sulfur and pyrites-m	Barite Bauxite Cement Chromite Corundum Gold Gypsum Magnesite Talc and steatite Copper	Asbestos Feldspar Fire clay Fluorspar Fuller's earth Graphite Kaolin (China clay) Lime Potash	Agate Alum Amber Bentonite (plastic clay) Building stone and road stone Calcite Diamonds

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>INDIA (New Delhi) --- continued</u>				Silver Zircon	Gems Lead Mineral pig- ments(ochre) Phosphates Samarskite Sand Tungsten Vanadium Zinc
<u>INDOCHINE - ASSOCIATED STATES OF VIET-N/M. CAMBODIA AND LAOS (Saigon)</u>			Solid fuels	Cement Salt Tin Zinc	Antimony Asbestos Bauxite Chromite Copper Gems Gold Lead Manganese Molybdenum Phosphates Titanium (ilmenite & titaniferr- ous iron) Tungsten
<u>INDONESIA (Diakarta)</u>					
Bauxite-m Tin-m		Nickel Salt Solid fuels	Cement Manganese Phosphates Platinum group metals Sulfur	Diamonds Kaolin (China clay) Lime Limestone Rare earths Stone, incl. trass	

m-Mine production (including milling)

Approved For Release 2002/05/31 : CIA-RDP92B01090R000600010011-9

t - Trade

RESTRICTED

24

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b bx
<u>IRAN (Tehran)</u>			Solid fuels	Cement Clay Salt Antimony Arsenic Chromite Gypsum Lead Manganese Sulfur
<u>IRAQ (Baghdad)</u>		Copper-m Sulfur-m		Salt Cement Gypsum Solid fuels
<u>IRELAND (Dublin)</u>			Gypsum	Barite Cement Fire clay Limestone Phosphates Pyrites Solid fuels Lead Mineral pigments Salt Sand and gravel Slate Stone Talc and soapstone Zinc
<u>ISRAEL (Tel Aviv)</u>				
Bromine-m Potash-m	Copper-m,p Diamonds-p,t		Cement Manganese Phosphates	Gypsum Salt Solid fuels

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

RESTRICTED

RESTRICTED

25

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ITALIAN-SOMALI LAND (Addis Ababa)</u>					
				Salt	

<u>ITALY (Rome)</u>					
Aluminum-p	Bauxite-m,p	Antimony	Bentonite	Asphalt	
Lead-m,p	Copper-t	Arsenic	(plastic clay)	Clays, other	
Mercury-m,p	Fluorspar-m	Asbestos		than Kaolin	
Pyrites-m	Solid fuels-	Barite	Cobalt	Iodine	
Sulfur-m,p	t,p	Cadmium	Gold	Marble	
Zinc-m,p	Tin-t	Cement	Kaolin	Mica	
		Feldspar	(China clay)	Tungsten	
		Graphite			
		Gypsum	Magnesite		
		Salt	Magnesium		
		Silver	Manganese		
		Talc and steatite			

<u>JAMAICA AND DEPENDENCIES (Kingston)</u>					
<u>Jamaica</u>					
Bauxite-m,p				Cement	
				Gypsum	
				Line	
				Limestone	
				Phosphates	

<u>Turks and Caicos Islands</u>					
			Salt		

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

26

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
Cayman Islands			Salt		Phosphates

JAPAN (Tokyo)					
Aluminum-p	Cobalt-p	Arsenic	Alunite	Agalmatolite	
Copper-m,p	Lead-m,p	Asbestos	Antimony	(silicate	
Pyrites-m	Magnesium-p	Bismuth	Barite	of	
Sulfur-m	Manganese-t	Cadmium	Fire clay	aluminum	
Zinc-m,p	Nickel-p	Cement	Gold	and	
	Salt-m	Chromite	Kaolin	potass-	
	Solid fuels-	Feldspar	(China	ium).	
	m,p	Fluorspar	clay)	Bauxite	
	Titanium-p	Graphite	Molybdenum	Diaspore	
		Gypsum	Phosphates	Diatomite	
		Mercury	Potash	Dolomite	
		Salt	Selenium	Gairome	
		Silver	Silica	clay	
		Talc	Tin	Garnet	
			Tungsten	sand	
				Limestone	
				Platinum	
				group	
				metals	
				Pumice sand	
				Stone,	
				pottery	
				Volcanic	
				sand	
				Asphalt	

JORDAN (Amman)					
Potash-m	Phosphates-m	Manganese	Cement	Barite	
			Marble	Clay	
			Salt	Sand	

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

RESTRICTED

RESTRICTED

27

APPENDIX A (continued)

Full Coverage			Medium Coverage	Watch List	Minimum Coverage		
					a	b	bx
<u>KENYA AND ZANZIBAR (British East Africa)</u>							
<u>(Nairobi)</u>							
Kyanite-m			Graphite-m			Asbestos	Bentonite
			Lead-m			Copper	(plastic
						Diatomite	clay)
						Gold	Cement
						Gypsum	Corundum
						Limestone	Clay
						Magnesite	Ebuzru clay
						Marble	Feldspar
						Mica	Lime
						Salt	Solid fuels
						Silver	Vermiculite
						Talc and	
						soap-	
						stone	

<u>KOREA, SOUTH (Pusan)</u>							
Tungsten-m		Graphite-m		Aluminum	Barite	Asbestos	
		Solid fuels-m		Beryl	Cement	Magnesium	
				Bismuth	Copper	Manganese	
				Columbite-	Gold	Mercury	
				Tantalite	Kaolin	Pyrites	
				Fluorspar	(China	Zircon	
				Salt	clay)		
					Lead		
					Mica		
					Molybdenum		
					Phosphates		
					Potash		
					Silver		
					Talc		
					Zinc		

<u>LEBANON (Beirut)</u>							
				Cement	Salt	Lime	
						Solid fuels	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

APPENDIX A (continued)

Full Coverage		Medium Coverage	Watch List	Minimum Coverage		
				a	b	bx
<u>LIBERIA (Monrovia)</u>						Diamonds Gold Rare earths Solid fuels
<u>LIBYA-CYRENAICA (Benghazi)</u>					Salt	Limestone Phosphates Sulfur
<u>LIBYA-TRIPOLITANIA (Tripoli)</u>					Salt	
<u>LUXEMBOURG (Luxembourg)</u>						
	Solid fuels- m				Cement Dolomite Gypsum Lime Limestone Quartz	Gravel Sand Slate, roof
<u>MADAGASCAR (Tananarive)</u>						
Graphite-m	Beryl-m				Gems	Asbestos
Mica-m	Quartz-m				Cement	Feldspar
					Corundum	Kaolin
					Gold	(China
					Solid fuels	clay)
					Talc	Phosphates
						Rare earths
						Slate
						Stone

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

APPENDIX A (continued)

29

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>MALAYA, FEDERATION OF (Singapore)</u>					
Columbite- Tantalite-m Tin-m,p		Bauxite-m	Cement Corundum Road stone Salt Solid fuels Titanium (ilmenite)	Gold Kaolin (China clay) Manganese Tungsten	Rare earths
<u>MALTA (Valleta)</u>					
					Lime Limestone Salt
<u>MEXICO (Mexico)</u>					
Antimony-m,p Copper-m,p Lead-m,p Solid fuels-m,p Sulfur-m Tungsten-m Zinc-m,p	Arsenic-m,p Bismuth-m Cadmium-m Fluorspar-m Graphite-m Manganese-m Mercury-m,p Molybdenum-m		Cement Gold Salt Silver	Asphalt Celestite Clay Lime Limestone Marble Mica Selenium Strontianite Tin	Calcite Cobalt Gypsum Phosphates Vanadium
<u>MOZAMBIQUE (Lourenco Marques)</u>					
	Columbite- Tantalite-m		Beryl Corundum Graphite	Bauxite Cement Gold Lithium minerals (lepid- olite) Mica Salt Silver Solid fuels	Gems (tour- maline) Kaolin (China clay) Rare earths Samarskite Tine

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

30

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>NAURU AND OCEAN ISLANDS (London)</u>			Phosphates		
<u>NETHERLANDS (Amsterdam)</u>					
Diamonds-p Solid fuels- m,p Tin-p	Zinc-p		Cement Salt		Potash
<u>NETHERLANDS WEST INDIES (Curacao)</u>				Phosphates Vanadium	Gold Salt
<u>NEW CALEDONIA AND DEPENDENCIES AND MAKATEA ISLAND (Noumea)</u>					
Cobalt-m,p Nickel-m,p	Chromite-m		Phosphates	Gypsum Manganese	Magnesite Solid fuels
<u>NEW GUINEA, TERRITORY OF, AND PAPUA (Melbourne)</u>				Gold Platinum group metals Silver	Manganese Pearls
<u>NEW ZEALAND (Wellington)</u>					
	Solid fuels- t		Cement Silver	Gold Lime Limestone Magnesite Manganese Mercury Silica sand Tungsten	Antimony Arsenic Asbestos Bentonite (plastic clay) Clay Copper Diatomite

m - Mine production (including milling)

Approved For Release 2002/05/31 : CIA-RDP92B01090R000600010011-9

t - Trade

RESTRICTED

RESTRICTED

31

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>NEW ZEALAND (Wellington) -(continued)</u>					Dolomite Mica Phosphates Platinum group metals Pumice stone Talc
<u>NICARAGUA (Managua)</u>			Gold Silver	Cement Salt	Lead Lime Sulfur Zinc
<u>NIGERIA (Lagos)</u>					
Columbite- Tantalite-m Tin-m	Solid fuels-m			Gold Lead Salt Silver Stone Tungsten	Zinc
<u>NORTHERN RHODESIA (Salisbury)</u>					
Cobalt-m Copper-m,p	Lead-m,p Zinc-m,p		Gold Selenium Silver Vanadium	Mica	Beryl Corundum Limestone Manganese Silica Tin
<u>NORWAY (Oslo)</u>					
Aluminum-p Columbite- Tantalite-m,p Nickel-p Pyrites-m Sulfur-m	Copper-m,p Magnesium-p Molybdenum-m,p Solid fuels-t Titanium (ilmenite and rutile)-m Zinc-m,p	Cobalt-p	Beryl Cadmium Cement Feldspar Talc and soapstone	Diatomite Fluorspar Graphite Lead Magnesite Mica Selenium Silver	Gold Platinum group metals Tin

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

RESTRICTED

32

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>NYASALAND (Salisbury)</u>			Corundum	Clay Graphite	Asbestos
<u>PAKISTAN (Karachi)</u>	Solid fuels- m		Cement Chromite Gypsum Salt		Antimony Beryl Building stone and road stone Fire clay Fuller's earth Kaolin (China clay) Limestone Sand, glass
<u>PANAMA (Panama)</u>		Manganese- m		Cement Gold	Salt Silver
<u>PARAGUAY (Asuncion)</u>				Cement	Kaolin (China clay) Lime Stone
<u>PERU (Lima)</u>					
Bismuth-m,p Copper-m,p Lead-m,p Tungsten-m Vanadium-m Zinc-m,p	Sulfur-m Solid fuels- m	Germanium- m	Antimony Cadmium Cement Gold Gypsum Indium Molybdenum Silver	Arsenic Asphalt Barite Clay, includ- ing refract- ory)	Calcite Onyx Marble, crushed Quartz, crushed Silica

RESTRICTED

RESTRICTED

33

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>PERU (Lima) - (continued)</u>				Feldspar Kaolin (China clay) Lime Limestone Mercury Mica Salt Stone Tin	
<hr/>					
<u>PHILIPPINES, REPUBLIC OF (Manila)</u>					
Chromite-m Copper-m	Manganese-m	Pyrites (Sulfur) -m	Gold Lead Silver	Asphalt Cement Clay Gypsum Lime Phosphates Salt Solid fuels	Platinum group metals Sand, gravel, crushed rock Stone
<hr/>					
<u>PORTUGAL (Lisbon)</u>					
Beryl-m Pyrites-m Tin-m Tungsten-m	Solid fuels-m		Cement Gypsum	Antimony Arsenic Barite Chromite Feldspar Gold Kaolin (China clay) Lithium minerals (ambly- gonite)	Asbestos Copper Granite Lead Limestone Marble Mercury Mica Phosphates Potash Sand and gravel Slate

m - Mine production (including milling)
p - Processing (including smelting, refining, and coking)
t - Trade

RESTRICTED

34

RESTRICTEDAPPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>PORTUGAL (Lisbon)</u>				Manganese Salt Silver Titanium	Sulfur Talc
<u>PORTUGUESE INDIA (Bombay)</u>					
	Manganese-m			Salt	
<u>SAUDI ARABIA (Jidda)</u>					
				Construct- ion mat- erials Copper Gold Gypsum Salt Silver Solid fuels	
<u>SEYCHELLES ISLANDS (Mombasa)</u>					
			Phosphates		
<u>SIERRA LEONE (Monrovia)</u>					
Diamonds-m			Chromite	Gold Platinum group metals	
<u>SOUTHERN RHODESIA (Salisbury)</u>					
Asbestos-m Chromite-m Solid fuels-m	Beryl-m	Copper-m	Gold Mica Pyrites Tantalite	Antimony Arsenic Barite Corundum	Bismuth Cement Columbite- Tantalite

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

35

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage
	a	b	bx

SOUTHERN RHODESIA (Salisbury) - continued

Fluorspar	Diamonds
Lead	Feldspar
Limestone	Kaolin
Lithium minerals (amblygonite)	(China clay)
Magnesite	Manganese
Silver	Phosphates
Tin	Quartzite
Tungsten	
Vermiculite	

SOUTH WEST AFRICA (Capetown)

Beryl-m	Diamonds-m	Tungsten-m	Lithium minerals (amblygonite, lepidolite, petcolite)	Barite	Bismuth
Cadmium-m	Lead-m		Silver	Cobalt	Fluorspar
Copper-m	Vanadium-m			Germanium	Gems (tourmaline)
	Zinc-m			Gold	Manganese
				Graphite	Rose quartz
				Limestone	Solid fuels
				Marble	
				Salt	
				Tin	

SPAIN (Madrid)

Mercury-m,p	Aluminum-p	Barite	Antimony	Agate
Pyrites-m	Fluorspar-m	Bauxite	Arsenic	Alabaster
Tungsten-m	Lead-m,p	Bismuth	Asphalt	Alum
	Solid fuels-m,p	Cement	Bentonite (plastic clay)	Asbestos
	Zinc-m,p	Copper		Basalt
		Gypsum		Celestite
		Manganese	Beryl	Chalk
		Phosphates	Calcite	Chrome - nickel ore
		Potash	Clay	Dolomite
		Salt	Diatomite	Emerald
		Silver	Feldspar	Garnet
		Sulfur	Gold	Gems
		Talc and soapstone	Graphite	
			Cobalt	

m - Mine production (including milling)

Approved For Release 2002/05/31 : CIA-RDP92B01090R000600010011-9

t - Trade

RESTRICTED

36

RESTRICTEDAPPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b bx
<u>SPAIN (Madrid)</u>				
		Tin		Granite Glauberite Gravel Mineral Kalk pigment Kaolin (ochre) (China Ophite clay) Quartz Lithium Scagliola minerals Serpentine (ambly- Slate gonite) Trachyte Magnesite Tripoli Marble Marl Mica Molybdenum Pumice Sand Silica Titanium (ilmenite)

<u>SURINAM (Paramaribo)</u>				
Bauxite-m		Beryl-m Columbite- Tantalite- m Mica-m		Gold Granite

<u>SWAZILAND (Johannesburg)</u>				
		Columbite- Tantalite- m	Asbestos	Barite Corundum Gold Silver Tin

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

37

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>SWEDEN (Stockholm)</u>					
Aluminum-p	Arsenic-m Copper-m,p Lead-m,p Pyrites-m Solid fuels-t Zinc-m		Bismuth Cement Feldspar Fluorspar Selenium Silver Talc Tungsten	Barite Diatomite Gold Kaolin (China clay) Manganese Mica Molybdenum Nickel	Chromite Cobalt Graphite Gypsum Mercury Salt Sulfur
<u>SWITZERLAND (Bern)</u>					
Aluminum-p	Copper-t Solid fuels-t Tin-t	Lead-t Pyrites-t	Cement Gypsum Magnesium Salt	Fluorspar	Arsenic Asbestos Asphalt Barite Manganese Slate Stone
<u>SYRIA (Damascus)</u>					
				Asphalt Cement Gypsum Salt	Lime Phosphates Solid fuels
<u>TAIWAN (Taipei)</u>					
	Aluminum-p	Manganese-m	Cement Salt Solid fuels Pyrites Rare earths	Copper Gold Phosphates Silver Sulfur	

m - Mine production (including milling)
p --Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

38

RESTRICTEDAPPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>TANGANYIKA (Dar-es-Salaam)</u>			Lead	Gold Kaolin (China clay) Limestone Mica Phosphates (guano) Salt Silver Talc and soapstone Tin	Beryl Corundum Magnesite Marble Mineral pigments (ochre) Solid fuels Tungsten Zinc
<u>THAILAND (Bangkok)</u>			Gems Lead Solid fuels Zinc	Antimony Cement Gold Gypsum	Molybdenum Silver
<u>TRINIDAD AND TOBAGO (Port-of-Spain)</u>			Asphalt	Clay Limestone	Boulders and road stone Diorite Gravel Porcell- amite Sand

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t -- Trade

RESTRICTED

RESTRICTED

39

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
TUNISIA (Tunis)	Lead-m,p Phosphates-m,p		Zinc	Cadmium	Barite
				Cement	Building stone
				Clay, including refractory	Celestite
				Flagstone	Manganese
				Fluorspar	Mercury
				Gypsum	Paving stone
				Lime	Sand and gravel
				Limestone	Stone
				Pyrites	
				Salt	
				Silver	
				Solid fuels	

TURKEY (Ankara)	Chromite-m Copper-m,p Manganese-m	Cobalt-m	Antimony Cement Pyrites Solid fuels Salt Sulfur	Arsenic	Asphalt
				Asbestos	Borates
				Lead	Clay
				Magnesite	Emery
				Mercury	Marble
					Meerschaum
					Silver
					Zinc

UGANDA (Nairobi)		Cobalt-m Columbite-tantalite-m Copper-m Lead-m Pyrochlore-m	Beryl Tin Tungsten	Asbestos	Cement
				Bismuth	Manganese
				Clay	Silver
				Gems	Solid fuels
				Gold	

m - Mine production (including milling)

p - Processing (including refining)

t - Trade

RESTRICTED

40

RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>UGANDA (Nairobi) - continued</u>					
				Lithium minerals (ambly- gonite) Mica Phosphates Salt	
<u>UNION OF SOUTH AFRICA (Pretoria)</u>					
Asbestos-m Beryl-m Chromite-m Corundum-m Diamonds-m Manganese-m Platinum group metals- m Solid fuels- m,p	Antimony-m Copper-m,p Nickel-m Tungsten-m	Rare earths- m	Cement Fluorspar Gold Gypsum Magnesite Mica Phosphates Pyrites Silver Tin	Arsenic Barite Bismuth Diatomite Feldspar Fuller's earth Gems Graphite Kaolin (China clay) Lead Limestone Mercury Salt Silica Talc Tantalite Vermiculite Wonderstone	Garnets Granite Lime Marble Mineral pig- ments Sandstone Slate
<u>UNITED KINGDOM (London)</u>					
Copper-p Columbite- tantalite-p Nickel-p	Aluminum-p Cadmium-p Celestite-m Cobalt-t	Germanium- p Titanium-p	Barite Cement Gypsum Pyrites	Arsenic Kaolin (China clay)	Gold Sand

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

RESTRICTED

RESTRICTED

41

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>UNITED KINGDOM (London) - continued</u>					
Solid fuels- m,p Tin-m,p Zinc-p	Diamonds-t Fluorspar-m Magnesium-p		Salt	Lead Selenium Silver Talc and scapstone Tungsten	
<hr/>					
<u>URUGUAY (Montevideo)</u>					
			Cement	Clay, common & refract- ory Feldspar Lime Limestone Mica Sand and gravel Stones, con- struct- ion Talc	Agate Calcite Dolomite Gems Graphite Pyrites Quartz
<hr/>					
<u>VENEZUELA (Caracas)</u>					
	Diamonds-m	Aluminum-p Cobalt-m Nickel-m Manganese-m Phosphates-m	Cement	Asbestos Gold Gypsum Limestone Magnesite Salt Solid fuels	Asphalt Lime

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

42

RESTRICTEDAPPENDIX A (continued)

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
				a	b	bx
<u>YUGOSLAVIA (Belgrade)</u>						
Aluminum-p	Chromite-m		Antimony	Barite	Arsenic	
Bauxite-m,p	Solid		Cement	Bismuth	Asbestos	
Copper-m,p	fuels-m,p			Gold	Asphalt	
Lead-m,p				Gypsum	Fluorspar	
Pyrites-m				Magnetite	Graphite	
Zinc-m				Molybdenum	Limestone	
				Salt	Manganese	
				Silver	Mercury	
				Wulfenite	Millstones	
				(lead molybdate)	Phosphates	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

43

APPENDIX BCOMMODITY BY COUNTRY -- LISTING OF MINERALS FOR FOREIGN
REPORTING PURPOSES

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>	
				a	b
					bx
<u>ALUMINUM</u>					
Austria-p	Brazil-p	Australia-p	Korea,		Belgium
Canada-p	India-p	Gold Coast-p	South		
France-p	Spain-p	Venezuela-p			
Western	Taiwan-p				
Germany-p	United				
Italy-p	Kingdom-p				
Japan-p					
Norway-p					
Sweden-p					
Switzerland-p					
Yugoslavia-p					

<u>ANTIMONY</u>					
Belgium-p	Algeria-m	Argentina	Australia	British	
Bolivia-m	Burma-m	Italy	Austria	Borneo	
Mexico-m,p	Canada-m	Peru	British	(North	
	French	Turkey	Borneo	Borneo)	
	Morocco-m	Yugoslavia	Sarawak	Western	
	Union of		France	Germany	
	South		Japan	Iran	
	Africa-m		Portugal	Greece	
			Southern	Honduras	
			Rhodesia	Indochina	
			Spain	New Zealand	
			Thailand	Pakistan	

<u>ARSENIC</u>					
	Mexico-m,p	Brazil	Australia	Argentina	
	Sweden-m	France	Austria	Iran	
		Italy	Belgium	New Zealand	
		Japan	Canada	Switzerland	

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

RESTRICTED

44

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ARSENIC -(continued)</u>					
				Western Germany Greece Peru Portugal Southern Rhodesia Spain Turkey Union of South Africa United Kingdom	Yugoslavia
<u>ASBESTOS</u>					
Bolivia-m Canada-m Southern Rhodesia-m Union of South Africa-m	French Morocco-m		Australia Colombia Cyprus Finland Italy Japan Swaziland	Chile Egypt France India Kenya and Zanzibar Turkey Uganda Venezuela	Argentina Austria Brazil Greece Indochina Korea, South Madagascar New Zealand Nyasaland Portugal Spain Switzerland Yugoslavia
<u>BAUXITE</u>					
British Guiana-m France-m,p Gold Coast-m Indonesia-m Jamaica-m,p Surinam-m Yugoslavia-m,p	French West Africa-m Greene-m Italy-m,p Trinidad and Tobago-t	Barbados & Leeward Islands-m Dominican Republic-m French Guiana & Inimi-m Haiti-m Malaya-m	Australia Brazil India Spain	Austria British Borneo Sarawak Western Germany Mozambique	Indochina Japan

RESTRICTED

RESTRICTED

45

APPENDIX B (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>BERYL</u>					
Argentina-m Brazil-m French Morocco-m India-m Portugal-m South West Africa-m Union of South Africa-m	Canada-m Madagascar-m Southern Rhodesia-m	Angola-m Australia-m Surinam-m	Korea, South Mozambique Norway Uganda	Afghanistan Finland Spain	British Somaliland Northern Rhodesia Pakistan Tanganyika
<hr/>					
<u>BISMUTH</u>					
Canada-m,p Peru-m,p	Mexico-m,p		Argentina Bolivia France Western Germany Japan Korea, South Spain Sweden	Australia Burma Uganda Union of South Africa Yugoslavia	Belgian Congo Brazil Southern Rhodesia South West Africa
<hr/>					
<u>BROMINE</u>					
Israel-m					
<hr/>					
<u>CADMIUM</u>					
Belgium-p Canada-m,p South West Africa-m	Australia-m,p Belgian Congo-m Mexico-m United Kingdom-p		France Italy Japan Norway Peru	French Equat- orial Africa Western Germany Tunisia	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>CELESTITE</u>					
	United Kingdom-m			Mexico	Argentina Spain Tunisia
<u>CHROMITE</u>					
Philippines-m Southern Rhodesia-m Turkey-m Union of South Africa-m	Cuba-m Cyprus-m Greece-m New Caledonia--m Yugoslavia-m		India Japan Pakistan Sierra Leone	Afghanistan Canada Egypt Western Germany Guatemala Portugal	Argentina Brazil French West Africa Indochina Iran Sweden
<u>COBALT</u>					
Belgian Congo-m,p Belgium-p Canada-m,p Cuba-m,p Finland-m French Morocco-m New Caledonia-m,p Northern Rhodesia-m	Japan-p Western Germany-p United Kingdom-t	Norway-p Turkey-m Uganda-m Venezuela-m	Burma	Australia Bolivia Chile Italy South West Africa Spain	Mexico Sweden

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

47

APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>COLUMBITE-TANTALITE</u>					
Belgian Congo-m Brazil-m Malaya-m Nigeria-m Norway-m,p United Kingdom-p	Australia-m,p British Guiana-m Canada-m Western Germany-p Mozambique-m	Belgium-t (Columbite only) French Guiana & Inimi-m (Tantalite only) Surinam-m Swaziland-m Uganda-m	Korea, South Southern Rhodesia (Tantalite)	Argentina Union of South Africa (Tantalite only)	French Equatorial Africa South West Africa

<u>COPPER</u>					
Belgian Congo-m,p Belgium-p Canada-m,p Chile-m,p Cyprus-m Finland-m,p Western Germany-p Japan-m,p Mexico-m,p Northern Rhodesia-m,p Norway-m,p Peru-m,p Philippines-m South West Africa-m United Kingdom-p Yugoslavia-m,p	Australia-m,p Cuba-m France-t Israel-m,p Italy-t Sweden-m,p Switzerland-t Turkey-m,p Union of South Africa-m,p	Argentina-t Iraq-m Southern Rhodesia-m Uganda-m	Austria Bolivia Burma India Spain	Angola French Morocco Kenya and Zanzibar Korea, South Saudi Arabia Taiwan	Algeria British Borneo-North Borneo Ecuador Guatemala Indochina New Zealand Portugal

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>CORUNDUM</u>					
Union of South Africa-m			India Malaya Mozambique Nyasaland	Argentina Brazil Madagascar Southern Rhodesia	Belgian Congo French Equatorial Africa Kenya and Zanzibar Northern Rhodesia Swaziland Tanganyika
<hr/>					
<u>CRYOLITE</u>					
Greenland-m* Denmark-p					
* - Cryolite data reported from Denmark					
<hr/>					
<u>DIAMONDS</u>					
Belgian Congo-m Belgium-p Gold Coast-m Netherlands-p Sierra Leone-m Union of South Africa-m	Angola-m Brazil-m British Guiana-m French Equatorial Africa-m French West Africa-m Israel-p,t South West Africa-m Tanganyika-m United Kingdom-t Venezuela-m	French Guiana and Inimi-m			Australia India Indonesia Liberia Southern Rhodesia

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

49

APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>FLUORSPAR</u>	Canada-m Western Germany-m Italy-m Mexico-m Spain-m United Kingdom-m		Argentina France Japan Korea, South Sweden Union of South Africa	Australia Brazil French Morocco India Norway Southern Rhodesia Switzerland Tunisia	Bolivia Hong Kong South West Africa Yugoslavia
<u>GRAPHITE</u>					
Ceylon-m Madagascar-m	Korea, South-m Mexico-m	Kenya and Zanzibar-m	Austria Western Germany Italy Japan Mozambique	Argentina Australia Brazil Canada French Morocco India Norway Nyasaland So. W. Africa Spain Union of S. Africa	Belgian Congo Finland French Equatorial Africa Greenland Sweden Uruguay Yugoslavia
<u>KYANITE</u>					
India-m Kenya and Zanzibar-m			Bechuanaland		

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

50

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>LEAD</u>					
Australia-m,p Belgium-p Canada-m,p French Morocco-m,p Western Germany-m,p Italy-m,p Mexico-m,p Peru-m,p Yugoslavia-m,p	Algeria-m Argentina-m,p Bolivia-m Burma-m,p France-m,p Greece-m,p Japan-m,p Northern Rhodesia-m,p South West Africa-m Spain-m,p Sweden-m,p Tunisia-m,p	Austria-m,p Greenland-m Kenya and Zanzibar-m Switzerland-t Uganda-m	Guatemala Honduras Philippines Tanganyika Thailand	Afghanistan Belgian Congo Chile El Salvador Finland French Equatorial Africa Korea, South Nigeria Norway Southern Rhodesia Turkey Union of South Africa United Kingdom	Angola Brazil British Borneo-Sarawak Cuba Ecuador Egypt French West Africa Hong Kong India Indochina Iran Ireland Nicaragua Portugal Tanganyika
<hr/>					
<u>MAGNESIUM</u>					
Canada-p	France-p Japan-p Norway-p United Kingdom-p		Switzerland	Italy	Korea, South
<hr/>					
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					

RESTRICTED

RESTRICTED

51

APPENDIX B (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>MANGANESE</u>					
Belgian	Chile-m	French	Angola	Australia	Algeria
Congo-m	Cuba-m	Equatorial	Israel	British	Argentina
Brazil-m	Egypt-m	Africa-m	Jordan	Borneo-	Belgium
French	Western	French	Spain	North	Bolivia
Morocco-m	Germany-t	West		Borneo	Canada
Gold Coast-m	Japan-t	Africa-m		Burma	Eritrea
India-m	Mexico-m	Panama-m		Greece	Fiji Islands
Union of	Philippines-	Taiwan-m		Indonesia	Indochina
South	m	Venezuela-m		Italy	Iran
Africa-m	Portugese			Malaya	Korea, South
	India-m			New	New Guinea
	Turkey-m			Caledonia	and
				New	Papua
				Zealand	Northern
				Portugal	Rhodesia
				Sweden	Southern
					Rhodesia
					Switzerland
					Tunisia
					Uganda
					Yugoslavia
					South West-
					Africa
<u>MERCURY</u>					
Italy-m,p	Mexico-m,p		Chile	New	Algeria
Spain-m,p			Japan	Zealand	Argentina
				Peru	Austria
				Turkey	Bolivia
				Union of	Canada
				South	Western
				Africa	Germany
					Korea, South
					Portugal
					Sweden
					Tunisia
					Yugoslavia

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

RESTRICTEDAPPENDIX B (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>MICA</u> Brazil-m India-m,p Madagascar-m	Argentina-m	Surinam-m	Canada Southern Rhodesia Union of South Africa	Angola Australia Austria Bolivia French Morocco Guatemala Kenya and Zanzibar Korea, South Mexico Mozambique Northern Rhodesia Norway Peru Spain Sweden Tanganyika Uganda Uruguay	Ceylon Eritrea Ethiopia Hong Kong Italy New Zealand Portugal
<u>MOLYBDENUM</u> Chile-m,p	Mexico-m Norway-m,p	Burma Peru	Australia Austria Canada Finland French Morocco Greece Japan Korea, South Spain Sweden Yugoslavia	Western Germany Hong Kong Indochina Thailand	
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					

RESTRICTED

RESTRICTED

APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>NICKEL</u>					
Canada-m,p Cuba-m,p New Caledonia- m,p Norway-p United Kingdom-p	Brazil-m Finland-m,t France-p Western Germany-p Japan-p Union of South Africa-m	Greece-m Venezuela-m	Burma Indonesia	Sweden	French Morocco
<u>NITRATE</u>					
Chile-m					
<u>PHOSPHATES</u>					
French Morocco-m	Algeria-m Egypt-m Jordan-m Tunisia-m,p	Venezuela-m	Christmas Island France Israel Nauru and Ocean Island New Caledonia and Makatea Island Seychelles Islands Spain Union of South Africa	Australia Brazil British Borneo (North Borneo) Canada Chile Western Germany Indonesia Ireland Japan Korea, South Netherlands West Indies Philippines Tanganyika Uganda	Austria Belgium French West Africa India Indochina Jamaica and Caymen Islands Libya Madagascar Mexico New Zealand Portugal Southern Rhodesia South West Africa Syria Yugoslavia

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

54

RESTRICTEDAPPENDIX B (continued)

<u>Full Coverage</u>		<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>	
			a	b	bx
<u>PLATINUM GROUP METALS</u>					
Canada-m,p			Gold Coast	Australia	Japan
Colombia-m				Belgian	New Zealand
Union of				Congo	Norway
South				Ethiopia	Philippines
Africa-m				Indonesia	
				New Guinea	
				and	
				Papua	
				Sierra Leone	
				Taiwan	
<u>POTASH</u>					
Israel-m	Western		Spain	India	Eritrea
	Germany-m			Japan	(potash salts)
	Jordan-m			Korea, South	Ethiopia
					Netherlands
					Portugal
<u>PYRITES</u>					
Cyprus-m	Canada-m,p	Australia-m	Brazil	Algeria	Hong Kong
Italy-m	Finland-m,p	Austria-m,t	Southern	Belgium	Korea, South
Japan-m	France-m	Greece-m	Rhodesia	Ireland	Uruguay
Norway-m	Western	India-m	Turkey	Tunisia	
Portugal-m	Germany-m	Philippines-m	Union of		
Spain-m	Sweden-m	Switzerland-t	South		
Yugoslavia-m			Africa		
			United Kingdom		
			Taiwan		

m - Mine production (including milling)

p- Processing (including smelting, refining, coking)

t - Trade

RESTRICTED

RESTRICTED

55

APPENDIX B (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>QUARTZ</u>					
Brazil-m	Madagascar-m			Luxembourg	Burma Chile Hong Kong Peru Southern Rhodesia (quartzite) South West Africa (rose quartz) Spain Uruguay
<hr/>					
<u>RARE EARTHS</u>					
Brazil-m India-m,p	France-p	Union of South Africa-m	Taiwan		Ceylon Egypt French Equatorial Africa Indonesia Liberia Madagascar Malaya Mozambique
<hr/>					
<u>SALT</u>					
	Egypt-m French Morocco-m Western Germany-m India-m Japan-m Thailand-m		Aden Argentina Australia Austria Brazil France Indonesia Italy Jamaica and dependencies (Turk, Caicos and Cayman Islands)	Afghanistan Algeria Anglo-Egyptian Sudan Angola Bahama Islands Belgian Congo Burma Canada	Barbados and Leeward Islands Bolivia British Somaliland Denmark Dominican Republic French Cameroons

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>SALT - continued</u>					
		Japan		Ceylon	French
		Korea,		Chile	Equatorial
		South		Colombia	Africa
		Malaya		Costa Rica	Ireland
		Mexico		Cuba	Malta
		Netherlands		Cyprus	Netherlands
		Pakistan		Ecuador	West Indies
		Spain		El Salvador	Panama
		Switzerland		Eritrea	Sweden
		Taiwan		Ethiopia	
		Turkey		French	
		United		Somili-	
		Kingdom		land	
				French	
				West	
				Africa	
				Gold Coast	
				Greece	
				Guatemala	
				Haiti	
				Honduras	
				Indochina	
				Iran	
				Iraq	
				Israel	
				Italian	
				Somili-	
				land	
				Jordan	
				Kenya and	
				Zanzibar	
				Lebanon	
				Libya	
				(Cyrenaica	
				and Trip-	
				olitania)	
				Mozambique	
				Nicaragua	
				Nigeria	
				Peru	

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

57

APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>SALT - continued</u>				Philippines Portugal Portugese India Saudi Arabia South West Africa Syria Tanganyika Tunisia Uganda Union of South Africa Venezuela Yugoslavia	
<hr/>					
<u>SOLID FUELS</u>					
Australia-m,p Belgium-m,p Canada-m,p France-m,p Western Germany-m,p India-m,p Mexico-m,p Netherlands- m,p Southern Rhodesia-m Union of South Africa-m,p United Kingdom-m,p	Argentina-t Austria-m,p Brazil-m,p Burma-m Colombia-m Denmark-t Finland-t Italy-t,p Japan-m,p Korea, South-m Luxembourg-m New Zealand-t Nigeria-m Norway-t Pakistan-m Peru-m Portugal-m Spain-m,p Sweden-t	Ecuador-m	Algeria Chile French Morocco Hong Kong-t Indochina Indonesia Iran Malaya Taiwan Thailand Turkey	Afghanistan Belgian Congo British Borneo (Brunei, North Borneo and Sarawak) Ethiopia Greece Greenland Iceland Ireland Madagascar Mozambique Philippines Saudi Arabia Tunisia Venezuela	Guatemala Iraq Israel Kenya and Zanzibar Lebanon Liberia New Caledonia and Makatea Islands South West Africa Syria Tanganyika Uganda

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTEDAPPENDIX B (continued)

<u>Full Coverage</u>	<u>Medium Coverage</u>	<u>Watch List</u>	<u>Minimum Coverage</u>		
			<u>a</u>	<u>b</u>	<u>bx</u>
<u>SOLID FUELS - continued</u>	Switzerland-t Yugoslavia-m,p				
<u>SULFUR</u>					
Italy-m,p Japan-m Mexico-m Norway-m	Bolivia-m Chile-m Colombia-m Peru-m	Ecuador-m India-m Iraq-m Philippines (Pyrites-sulfur)- m	Argentina Canada France Spain Turkey	Algeria Greece Indonesia Taiwan	Austria Costa Rica Egypt Eritrea Finland Guatemala Iceland Iran Libya Nicaragua Portugal Sweden
<u>TIN</u>					
Belgian Congo-m,p Belgium-p Bolivia-m Indonesia-m Malaya-m,p Netherlands-p Nigeria-m Portugal-m Thailand-m United Kingdom-m,p	Brazil-m,p Burma-m France-t Italy-t Switzerland-t		Argentina Australia Hong Kong-p,t Spain Uganda Union of South Africa	French Cameroons Western Germany-p Indochina Japan Mexico Peru Southern Rhodesia South West Africa Swaziland Tanganyika	Canada Egypt French Morocco French West Africa Mozambique Northern Rhodesia Norway

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

59

APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>TITANIUM</u>					
Australia (rutile and ilmenite)- m Canada (ilmenite) -m,p India (ilmenite and rutile) -m	Japan-p Norway (ilmenite and rutile) -m	Brazil (rutile and ilmenite) -m Egypt (ilmenite) m France-p United Kingdom-p	Burma French Cameroons (rutile) French West Africa (ilmenite and rutile) Malaya (ilmenite)	French Equatorial Africa Portugal Spain (ilmenite)	Ceylon (ilmenite) Indochina (ilmenite and titani- ferrous iron)
<u>TUNGSTEN</u>					
Argentina-m Australia-m Belgien Congo-m Bolivia-m Brazil-m Burma -m Mexico-m Peru-m Portugal-m Spain-m Thailand-m	Canada-m Union of South Africa-m	Angola-m	France Sweden Uganda	Egypt Finland Japan Korea, South Malaya New Zealand Nigeria Southern Rhodesia United Kingdom	Austria Chile French Morocco French West Africa Western Germany Hong Kong India Indochina Italy Tanganyika
<u>VANADIUM</u>					
Peru-m	South West Africa-m		Northern Rhodesia	Netherlands West Indies	Argentina Western Germany India Mexico

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

APPENDIX B (continued)

Minimum Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ZINC</u>					
Australia-m,p	Algeria-m	Austria-m,p	Guatemala	Afghanistan	Colombia
Belgian	Argentina-m,p	French	Thailand	Chile	Egypt
Congo-m	Bolivia-m	Morocco-p	Tunisia	Finland	India
Belgium-p	Burma-m	Green-		French	Ireland
Canada-m,p	France-m,p	land-m		Equatorial	Nicaragua
French	Greece-m			Africa	Nigeria
Morocco-m	Netherlands-			Indochina	Tanganyika
Western	p			Korea, South	Turkey
Germany-	Northern				
m,p	Rhodesia-				
Italy-m,p	m,p				
Japan-m,p	Norway-m,p				
Mexico-m,p	South West				
Peru-m,p	Africa-m				
United	Spain-m,p				
Kingdom-	Sweden-m				
p					
Yugoslavia-m					

ZIRCON

Australia-m
Brazil-m

India

Korea, South

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

RESTRICTED

RESTRICTED

61

APPENDIX C. Guide for Single-Time Basic Report of Particular Minerals - Check List for Periodic Analytic Reporting

1. Relative importance of particular industry in the economy and in relation to other segments of the minerals industry
Compare value of output with value of total mineral output; or with total value of production of all goods in country if particular mineral constitutes one of the principal products produced; position of commodity in export trade, if significant.
2. Comments on production, consumption and foreign trade
Summarize and highlight important aspects of production, consumption, capacity, foreign trade and prices, with brief comments on significant changes. Include estimates of consumption by principal uses, if obtainable. Include reported or estimated semi-fabricated production and foreign trade, if available. Comments where significant on regional or major company developments.
3. Salient features of the industry
Give, in concise terms, the principal facts about the industry, for example; nature and extent (reserves) of important deposits, including grade of ore; principal mining areas by name and location, with names and possibly production of important mines; principal centers of smelting industry, refining industry, and semi-fabricated industry, with names and capacity of important plants; extent of integration of industry; relationship between primary and secondary industry; principal markets for metals and names of important marketing companies; principal means of transportation, routes, and exit ports.
4. Ownership and financial structure
Report principal ownership of companies, and extent, in broad terms, and investment, including the extent of foreign interest; important programs being carried on by the various agencies of the US Government; and developments underway financed in whole or in part by US companies.
5. Government policies, controls, and laws
Delineate the general policy framework within which mining and metallurgical concerns must operate; briefly note important laws governing ownership, taxation, financing, development; note specific controls on production, export or imports, and prices;

RESTRICTED

62

RESTRICTED

note dispersal programs, preclusive buying plans for or extent of strategic stockpiling. Estimate the effectiveness of these measures.

6. Taxes, duties and subsidies
Taxes on production, export and import duties and subsidies affecting the mining and metallurgical industry should be given in specific terms.
7. Participation in international commodity agreements
Comments on local reactions to participation in International Materials Conference, GATT, trade agreements, etc.
8. General outlook
Cover briefly the over-all reserve position, supply-consumption position, and general industry trends. Include important proposals for changes in government policy or legislation and an estimate of their probable effect.
9. Description of principal mining methods (and metallurgical processes)
This should include enough detail to indicate principal mining methods and to indicate degree of mechanization, and metallurgical processes in use, by important segments of the industry and approximate proportion of output treated by each method.
10. New activities in exploration and development and technology
Indicate briefly important new developments, the company or group undertaking these developments, and from time to time report on significant progress and outlook. Note government or industry plans for comprehensive development and capital requirements, if any.
11. Competitive position
Indicate principal cost factors of principal sections of industry, such as: grade of ore, cost of extraction, transportation availability and costs, marketing problems.
12. Factors affecting production
When significant, delineate bottlenecks in production, transportation problems, dependence upon foreign sources for supplies and equipment, retention of foreign exchange by producing concerns, etc.
13. Special labor problems
When significant, indicate such problems as lack of skilled labor, disputes, strikes, and working conditions.

RESTRICTED

RESTRICTED

63

APPENDIX D. Outline for Single-Time Report on Individual Enterprises and Check List for Revisions and Corrections

- I. Name of operating company (refers to holding company or group)
- II. Address in country
- III. Principal officials
- IV. Ownership (by nationality and controlling interests, if possible)
Note: trademarks, brand names
- V. Loans, grants, or government subsidies (emphasize US loans or grants, i.e., from Export-Import Bank, MSA, DMPA, etc)
- VI. Individual mines and mills, smelters, refineries and semi-fabricating plants.
 1. Names of principal installations
 2. Location, including latitude and longitude, street address, distance from distinctive land marks, elevation and terrain features
 3. Operating company if different from above
 4. Labor force - number of workers (male and female), skilled - semi-skilled - unskilled, number of days per week, shifts per day, hours per shift, Sources of labor and availability of replacements. Health and housing conditions, unions, strikes, wage structure, etc.
 5. Transport facilities
 6. Brief description of installation and capacity (see also items 10 and 14)
 7. Type and quantity of production (1949-1951)
 8. Destination of product including names of principal consumers
 9. Reserves (grade and content; measured; indicated and inferred) [mines only]
 10. Note principal mining methods and metallurgical processes. Use of special equipment, extent of and degree of emphasis on research
 11. Factors of production (power, fuel, water supply, principal sources of raw materials, equipment, and supplies) and bottlenecks (including also seasonal interferences, maintenance problems, obsolescence of equipment, etc.)
 12. Competitive economic position

RESTRICTED

RESTRICTED

- 2 -

13. Note whether mines and processing plants are integrated or individual operations and whether smelters and refineries are typically integrated or custom.
14. Special plant layout and installation data
 - (1) A. Layout of Installation
 - a. Give outline of installation area and orient with regard to nearby installations
 - b. Give dimensions, placement and function of all structures and all servicing facilities such as storage facilities, waste disposal, power facilities, railroad lines, roads, paths, power and phone lines, pipelines (above and below ground) and loading and unloading facilities.
 - c. Describe number of units, type, size, capacity, placement and condition of machines and equipment in each building.
 - B. Structural Details of Buildings
 - a. Number of stories, length, width and height to eaves.
 - b. Construction - Describe footings, foundations, roofs and walls. Specify materials.
 - (2) Details, organization and effect of internal security measures.
 - (3) Defense installations, nature and location.
 - (4) Possibilities and/or provisions for expansion or conversion of production facilities or the installation, to war essentials.
 - (5) Damage to installation as a result of disaster. Extent of damage and amount of production loss.

VII. Outlook

RESTRICTED

RESTRICTED

65

APPENDIX E. Periodic Statistical Reporting of Minerals
Data for Country as a Whole

1. Mine Production
Report mine production both in terms of gross weight and as metal content of ore (or concentrates). Estimate content of ore (or concentrates) if reported data are not available.
2. Smelter Production
Report output of primary smelters. Report separately output of secondary smelters, if available.
3. Refinery Production
Report output of primary refineries, total or preferably by product. Report separately output of secondary refineries.
4. Exports by Destination and Type of Product
Report foreign trade data by major product categories, i.e., ores and concentrates, unrefined or crude, refined, and scrap. Report separately exports and imports of products. Indicate whether gross weight or metal content.
5. Imports by Source and Type of Product
Report foreign trade data by major product categories, i.e., ores and concentrates, unrefined or crude, refined, and scrap. Report separately exports and imports of products. Indicate whether metal content or gross weight.
6. Actual Consumption
Report actual consumption, as reported or estimated. Indicate, if possible, quantity of secondary included. Do not compute apparent consumption.
7. Stocks - smelter and Refinery
Report only at smelters or refineries, omitting in transit and in process stocks. Report ore or concentrate stocks at mines or mills if abnormal, for example, due to transportation difficulties. Report government stockpiles separately, if available.
8. Prices
Market quotations in local prices (including black market), or any other form as available.

RESTRICTED